in honor of Josiah Otis Swift (1870--), well-known naturalist, founder of the Yosian Brotherhood which in the past quarter of a century has brought the beauties of the great out-of-doors to over 150,000 Americans, chiefly in the vicinity of New York City, and author of the dally column "News Outside the Door" which has popularized Nature-study among millions of newspaper readers.

## NOTES ON SOUTH AMERICAN MELASTOMES

H. A. Gleason

The genus Centradenia, with seven known species, has always been considered endemic to Central America, ranging from Fanama to southern Mexico. Haught has recently collected plants along the western coast of Colombia which, although bearing only imature flowers, undoubtedly represent C. Maxoniana Gl. So far as known to me, this is the first collection from the South American continent, and leaves Heterocentron the only endemic genus of the family in Contral America.

Haught has also collected in Colombia plants of Miconia barbicaulis Gl. which exactly match the type specimen. The species was originally described from the eastern slope of the Andes in Ecuador. Heught's collection was made on the western slope of the mountains and spproximately four hundred miles north of the type locelity.

CAIYFTRELIA STELLATA Gl., sp. nov. A speciebus sex differt petalis subrotundis nec acutis nec acuminatis; a C. littorali G1. differt floribus 5 -meris magnis foliis 5-nerviis; a C. denticulata Gl. differt folils et hypanthils stellatotomentosis atque longe villosis, floribus majoribus, dentibus calycis exterioribus multo majoribus 2.5 mm . longis.

A large shrub or smell tree with clear red flowers. Younger stem densely villous with short crowded hairs. Leaves obovateoblong, 5-nerved, entire, abruptly short-acuminate, obtuse or rounded at base, glabrous above, densely white-stellate-tomentose beneath and also villous with pale brown hairs. Hypanthium densely stellate and also villous, 8 mm . long to the torus. Calyx $4.5--5 \mathrm{~mm}$. long, irregularly ruptured at anthesis, ususily into 3 lobes, pubescent like the hypanthium but with shorter hair; exterior teeth triangular, 2.5 mm . long. Fetals rotundobovate, 1.3 mm. long and wide. Filaments 8.5 mm . long; anthers 11.6 mm . long, tangentially flattened, the stout connective prolonged 2 mm , to the fllament and terminating in an obscure
obtuse basal spur.
Type, Espinosa 1544, in the herberium of the New York Botenical Garden, collected at Hulaco, near Loja, Ecuador, alt. 2250 meters.

A key to the eight species of Calyptrella then known was published in Phytologia 2: 301 in 1947. Cur plant traces through the key directly to C. denticulata, also from Ecusdor, but differs from it conspicuously in certain characters not mentioned in the key. In C. denticulata, the pubescence of the leaves and the hypanthium is restricted to stellate hairs, lacking the long simple ones, the leaves are narrowed to the base, the hypanthium and calyx are only half as large, the exterior teeth are merely minute points, the petals and stamens are considerably smaller.

CONOSTEGIA HAUGHTII Gl., ap. nov. Frutex 1.5 m . altus, ramis follisque juvenilibus arctissime furfuraceis mox glabrescentibue. Folia membranacea, olliptico-oblanceolata vel oblanceolata, usque ad 22 cm . longa 7.5 cm . lata, acuminata ad apicem obtuaum, integra, basi longe cuneata fere ad caulem, petiolo libero tantum $2--3 \mathrm{~mm}$. longo, valde 5 -pli-nervia, subtus pallida. Panicula laxe pauciflora, $4--6 \mathrm{~cm}$. longa. Flores 5 -meri in cymulis 3 -floris terminalibus. Alabestrum obovoideum; obtusum, 3.5 mm . longum, tenuissime furfuraceum; hypanthium 2.2 mm . longum. Fetala alba, ovata, obtua, equilatera, 3.2 mm . longa, 1.9 mm . lata. Stamina 10, isomorpha; fllamenta leviter complanata, 1.5 mm . longa; antherae oblongae, 1.5 mm . longae; connectivum simplex. Cvarium inforum; stylus gracilis, 4.7 mm . longus; stigmate fere punctiformi.

Type, Haught 4939, collected at quebrado Isaias, east of Turbo, Dep't. Antioquia, Colombia, altitude about 50 meters, in the herbarium of the New York Eotanical Gerden. The species stende out sharply from the other Colombian plents of the genus by ite apparently glabrous foliage, strongly 5-pli-veined leaves, and small fen-flowered cymes.

MICONIA MEDUSA Gl., sp. nov. Sect. Cremanium. Frutex; rami gracile日, petioli, et follorum pagina inferiore tomentosi, pilis elongatis contortis parce ramosis. Folia longe petiolata, membranacea, oblongo-oblanceolata, breviter acuminata, apinuloso-ciliata (dentibus adscendentibus, 0.5 mm. longis), 3nervia, supre glabra. Fenicula terminalis, valde reducta, non vel vix ramosa, $2--5 \mathrm{~cm}$. longa. Flores 5 -meri ad nodos eessiles fasciculati. Hypanthium poculforme, glabrum. Calyx ad anthesin in lobos 5 triangulares hyalinos $0.4-0.5 \mathrm{~mm}$. longos ruptus; dentes exteriores trianguleres, erecti, 0.2 mm . longi. Fotala alba, fere orbicularia, 1.25 mm . longa. Filamenta 1.6 mm . longa, ultra medium geniculata. Antherae oblongee, 0.8 mm . longa, poris 2 latis ventro-terminalibus dehiscentes. Cvarium
inferum, (?) 3-loculare. Stylus rectue, 3 man. longue, apicem versus clavatus ad stigma rotundatum.

Type, Espinosa 1559 , collected 5 km . southeast of Loja, Ecuador, alt. 2300--2400 meters, in the herbarium of the Nen York Botanical Gardon.

There is no doubt that this plant finds its nearest relative in the Feruvian M. aprica Gl., in which the minute flowers are similarly congested and the pubescence is irregularly branched. It differs from our plant in its much wider and thicker leaves, scabrous above, with shortor and aparser tomentum and larger spinulose teeth, in the well developed branched panicle, the much larger anthers, and the prolonged connective.

> PACHYDESMIA Gl., gen. nov.


#### Abstract

Among the Haught collection is another melastome which displays such remarkable differences from all other members of the family known to me that I am constrained to describe it as a new genue.

Caulis circum basin petioli valde expensus. Panicula trichotoma, axi centrali non evoluto et panicula corymbiformi. Cvaril summum ad parietam hypanthil connexum per membranas 10 rediatim divergentas. Connectivum antherae valde dilatatum ot thecas ubique excedens, sursum in lobum unum rotundatum vel truncatum, deorsum in lobos 2 rotundatos. Thecse antherae parvae, in medio connectivi affixae et vix elevatae, sursum in partem sterilem divergentem breviter productae, late poculiforme, poro magno terminali dehiscentem.


FACHYDESMIA HAUGHTII Gl., sp. nov. Prutex 1 m . altus, caule ramoso, sparse furfuraceo. Fetioli $8--12 \mathrm{~mm}$. longi. Laminae elliptico-ovatae, usque ad 120 mm . longae 57 mm . latae, subacuminatae, ciliatae (ciliis spinulosis $1--2 \mathrm{~mm}$. longis), basi late rotundatae, 3 -nerviae, supra glabrae, subtus sparsissime furfuraceae secus venas primerias. Fanicula fere 1 dm . longa lataque. Hypanthium late campanulatum, 1.5 mm . longum ad torum, 3 mm . In diametro, minutissime furfuracoum. Calycis tubus 0.5 mm . productus, sinubus late rotundatis; lobi obtuse triangulares, 1 mm . longi, minute eroso-ciliati; dentes exteriores adnati, triengulares. Fetala alba, late elliptica, 4.3 mm . longa, inequilatera. Stamina 10. Filamenta ca. 4 mm . longa, supra medium geniculata, ad apicem valde dilatata. Connectivum 2 mm . longum, in ser. staminum exteriore apice truncatum, in ser. interiore ovatum obtusum. Thecae vix elevatum, poro divergente C. 8 mm . in diametro dehiscentes.

Type, $\frac{\text { Haught }}{5201}$, collected west of Tambo, on the west slope of the Cordillera Occidental, Dep't. Ceuca, Colombia, altitude 2200 meters, in wet forest.

The peculier features of the plant are summarized in the
generic diagnosis. The epathe-like expansion of the stem about the base of the petioles is known also in four species of Miconia, M. scutata, annularis, stipularis, and manicata. A corymbiform panicle very rarely appears in the genus. The connection of the ovarysumpit nith the wall of the hypenthium has not been observed by me in the Miconieae: it consists of ten thin radiating membranes extending from the very suremit of the ovary to the mall. of the hypanthium as far as the torus, and dividing the cavity into as meny chambers each of which is in the bud occupled by an anther. The remarkably large connective extends well below the minute thecae, which is common in meny species of Yelastomes, and also well beyond the thecae, a con-


Front and aide view of anther; hypanthium, calyx, and style. $\times 8.3$ dition which I
have not noted elsewhere in the family. The two thecae are small and tangentially flattened. Before dehiscence, as seen in an unopened flower-bud, they are slightly distended; after dehiscence they are acarcely elevated above the eurface of the connective. At the upper end of the thecae the broadly cupshaped sterile portion diverges at right angles from the connective and terminates in a large pore. The total length of the thecae, including the pore, is about half that of the connective.

In general aspect and in most technical characters the plant suggests Miconia, to which it must be related, but it differs so greatly in its anthers from every species known to ma that

It can not be associated with any of them, nor assigned to any of the eleven sections of the genus.

## A NEW SPECIES OF PTYCHCCARPUS FROM PGRU

Joseph V. Moneohino

The genus Ptychocarpus Kuhlmann belongs in the tribe Caseariere (Benth. \& Hook. Gen. P1. 1: 795; Engl. \& Prentl PPlanzenf. $3^{6 a}: 46$ ). It is easily distinguished at aight from other American genera in the Flacourtiaceae by its inflorescence habit. P. apodanthus, the only hitherto known species, was reported as seemingly frequent in the state of Pará, Brazil; it has also been collected in the Matto Grosso (Krukoff 1342; Taba jaza, upper Nachado River, terra firma; November 13, 1931; distributed as "Ferebes ?"). The aimple, clearly defined position of this genus and species made it an easy matter to recognize the following novelty, which was chenced upon among a set of unidentified specimens filed as Sapotacere at the New York Sotanical Garden.

PTYCHOCARPUS KILLIPII Monachino, sp. nov. Arbor glaber 6--8 m. altus; potiolis $4--6 \mathrm{~mm}$. longis; leminis ca. $15--20 \mathrm{~cm}$. longis ot $4--7 \mathrm{~cm}$. latis punctatis oblongo-oblanceolatis, ad apicom cuspidato-acuminatis, ad basin acutis, nervils primerils lateralibus utroque ca. 12 distantibus adscendentibus arcuatis; inflorescentifs axillaribus sessilibus glomeratis ca. 8 mm . longis paucifloris dense bracteatis; floribus masculis: perianthio urceolato ca. 6 mm . longo intus prope basin dense piloso, caeterum glabro, lobis 4 imbricatis ovetis ca. 1.5 mm . longis; staminibus 8 , filamentis ligulatis ca. 1.5 mm . longis et 0.5 mm. latis.

Glabrous tree 6--8 m. tall; stipules caducour; leaves alternete, the petioles $4--6 \mathrm{~mm}$. long, thick, the bledes about 15-20 cm . long and $4-7 \mathrm{~cm}$. brosd, closely translucent-punctate, oblong-oblanceolate, abruntly cuspidate-acuminate, narrowed and acute at base, faintly serrulate on the upper margins, the principal lateral nervos about 12 paire, midely spaced and clearly ascending-arcuate, connected near the margine of the blade, the reticulation loose, a little raised on the underside of the blade; inflorescences closely resembling those of $F$. apodenthus, axillary, sessile, glomerate, about 8 mm . long, fen-flowered, densely bracteate, the bracts overlapping so as to impart a strobile-like appearance to the inflorescences, orbicular to oblong, up to 6 mm . long and 3 mm . broad, flet to

